



3M Office of Intellectual Property Counsel

PO Box 33427
St. Paul, Minnesota 55133-3427
612/733 1500

PATENT

Docket No.

45751USA8B

08/66/234
08/154989
J. Parker
2-28-94
#2/Pie
Amend

Transmittal of Application Under 37 CFR 1.60

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Anticipated Classification

Please file a ☐ continuation ☒ divisional

application under 37 CFR 1.60

of pending prior Application No. 07/632,964

filed on December 20, 1990
(Date)

d Joseph P. Kronzer and James F. Dyrud
(Inventor(s))

for FIBROUS FILTRATION FACE MASK

(Title of Invention)

1. ☒ The enclosed application papers are a true copy of the prior application (including the claims, drawing, and oath or declaration). No amendments referred to in the oath or declaration filed to complete the prior application introduced new matter therein.
2. ☐ Enclosed is a new application and an oath or declaration.
3. ☒ Amend the specification by inserting before the first line the sentence:

This is a ☐ continuation ☒ division

of Application No. 07/632,964 filed December 20, 1990

4. ☒ Cancel claims 1-24
5. ☒ A preliminary amendment is enclosed.
6. ☒ 3 sheet(s) of drawings is/are enclosed. (formal drawings)
7. ☐ Transfer the drawings from the prior application to this application and abandon the prior application.
8. ☒ This application is being filed by less than all the inventors named in the prior application. Please delete the names of the following person(s) who are not inventors of the invention being claimed in this application:

Harvey J. Berg and Roger J. Stumo

The fees for filing the application are computed as follows:

Claims As Filed, After Accounting For Any Claims Cancelled In Paragraphs 4 Or 5 Above				
(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$710.00
Total Claims	9 - 20 =	0	X \$22.00	0
Independent Claims	2 - 3 =	0	X \$74.00	0
Additional fee for filing one or more multiple dependent claims			\$230.00	0
Assignment Recording Fee			\$40.00	0
Total Filing Fee Due				710.00

9. ☒ Enclosed is \$710.00. Please charge any additional fees or credit any over payment to Deposit Account No. 13-3723.
10. ☒ An assignment is ☐ enclosed or ☒ of record in prior application.
11. ☒ A power of attorney is ☐ enclosed or ☒ of record in prior application.
12. ☐ Other

Registration Number 32,900	Telephone Number 612-736-7776
Date November 18, 1993	

Respectfully submitted,

Signature
Print Name Karl G. Hanson

§ 1.60 Continuation or divisional application for invention disclosed in a prior application.

(a) [Reserved]

(b) An applicant may omit signing of the oath or declaration in a continuation or divisional application (filed under the conditions specified in 35 U.S.C. 120 or 121 and § 1.78 (a)) if (1) the prior application was a complete application as set forth in § 1.51 (a), (2) applicant indicates that the application is being filed pursuant to this section and files a true copy of the prior complete application as filed including the specification (including claims), drawings, oath or declaration showing the signature or an indication it was signed, and any amendments referred to in the oath or declaration filed to complete the prior application, (3) the inventors named in the continuation or divisional application are the same or less than all the inventors named in the prior application, and (4) the application is filed before the patenting or abandonment of or termination of proceedings on the prior application. The copy of the prior application must be accompanied by a statement that the application papers filed are a true copy of the prior application and that no amendments referred to in the oath or declaration filed to complete the prior application introduced new matter therein. Such statement must be by the applicant or applicant's attorney or agent and must be a verified statement if made by a person not registered to practice before the Patent and Trademark Office. Only amendments reducing the number of claims or adding a reference to the prior application (§ 1.78 (a)) will be entered before calculating the filing fee and granting the filing date. If the continuation or divisional application is filed by less than all the inventors named in the prior application, a statement must accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation or divisional application. If a true copy of the prior application as filed is not filed with the application or if the statement that the application papers are a true copy is omitted, the application will not be given a filing date earlier than the date upon which the copy and statement are filed, unless a petition with the fee set forth in § 1.17(l)(1) is filed which satisfactorily explains the delay in filing these items.

(c) If an application filed pursuant to paragraph (b) of this section is incomplete, applicant will be notified and given a time period within which to complete the application in order to obtain a filing date as of the date of filing the omitted item provided the omitted item is filed before the patenting or abandonment of or termination of proceedings on the prior application. If the omission is not corrected within the time period set, the application will be returned or otherwise disposed of; the fee, if submitted, will be refunded less the handling fee set forth in § 1.21(n).

[50 FR 9379, March 7, 1985, as amended at 54 FR 47519, November 15, 1989.]

OATH, POWER OF ATTORNEY, AND PETITION

Being duly sworn, We. Joseph P. Kronzer, Roger J. Stumo, James F. Dyrud, and Harvey J. Berg

depose and say that: (1) we are citizens of the United States of America, residing respectively at City of St. Paul, County of Ramsey, State of Minnesota; City of Coon Rapids, County of Anoka, State of Minnesota; Township of Stanton, County of St. Croix, State of Wisconsin; and City of St. Paul, County of Ramsey, State of Minnesota; (2) we have reviewed and understand the contents of attached specification, including the claims, as amended by any amendment specifically referred to herein, and we verily believe that we are the original, first, and joint inventors or discoverers of the invention or discovery in

METHODS OF FORMING FIBROUS FILTRATION FACE MASKS

(F.N. 45751USALA)

described and claimed therein and for which a patent is sought: (3) we do not know and do not believe that this invention or discovery was ever known or used in the United States of America before our invention or discovery thereof, or patented or described in any printed publication in any country before our invention or discovery thereof, or more than one year prior to this application, or in public use or on sale in the United States of America more than one year prior to this application; (4) that this invention or discovery has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by us or our legal representatives or assigns more than twelve months before this application; (5) we hereby acknowledge our duty to disclose to the Patent and Trademark Office information we are aware of which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a)*; and (6) no application for patent or inventor's certificate on this invention or discovery has been filed by us or our legal representatives or assigns in any country foreign to the United States of America.

We hereby appoint Donald M. Sell (Reg. No. 17,324), John C. Barnes (Reg. No. 20,278), Walter N. Kirn (Reg. No. 21,196), Roger R. Tamte (Reg. No. 21,093) Terryl K. Qualey (Reg. No. 25,148), Warren R. Bovee (Reg. No. 26,434) and Karl G. Hanson (Reg. No. 32,900).

our attorneys with full powers (including the powers of appointment, substitution, and revocation) to prosecute this application and any division, continuation, continuation-in-part, reexamination, or reissue thereof, and to transact all business in the Patent and Trademark Office connected therewith; the mailing address and the telephone number of the above-mentioned attorneys are

Attention: Karl G. Hanson
3M Office of Patent Counsel
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Telephone No. (612) 733-1500

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the attached specification and we hereby subscribe our names to the foregoing specification and claims, oath, power of attorney, and this petition, this 19th day of December, 1990.

1-00 Inventor: Joseph P. Kronzer

Inventor: Roger J. Stumo

Post Office Address: P.O. Box 33427
St. Paul, Minnesota 55133-3427

Post Office Address: P.O. Box 33427
St. Paul, Minnesota 55133-3427

2-00 Inventor: James F. Dyrud

Inventor: Harvey J. Berg

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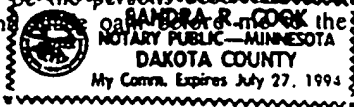
STATE OF MINNESOTA

COUNTY OF RAMSEY

Before me personally appeared Joseph P. Kronzer and James F. Dyrud

to me known to be the persons described in the above application for patent, who signed the foregoing instrument in my presence, and they acknowledged to me the allegations set forth therein as being under oath, on the day and year aforesaid.

(SEAL)



This form may be executed only when attached to the

Sandra R. Cook

Whereas we, Joseph P. Kronzer, Roger J. Stumo, James F. Dyrud, and Harvey J. Berg

citizens of the United States of America residing respectively at City of St. Paul, County of Ramsey, State of Minnesota; City of Coon Rapids, County of Anoka, State of Minnesota; Township of Stanton, County of St. Croix, State of Wisconsin; and City of have made an invention in St. Paul, County of Ramsey, State of Minnesota

METHODS OF FORMING FIBROUS FILTRATION FACE MASKS

(F.N. 45751USALA)

and have today executed an application for Letters Patent of the United States of America based thereon;


Now, Therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto the MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as the Minnesota Mining & Manufacturing Company), a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the said Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

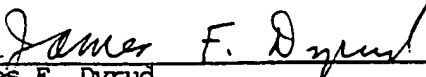
We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

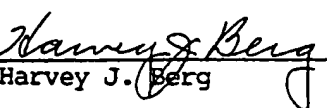
And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said Minnesota Mining and Manufacturing Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the day and year set forth below.


Joseph P. Kronzer


Roger J. Stumo


James F. Dyrud


Harvey J. Berg

STATE OF MINNESOTA

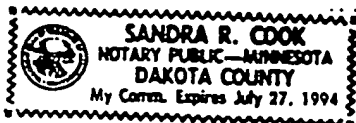
COUNTY OF RAMSEY

} SS.

On this 19th day of December, 1990, before me personally appeared the above-named Joseph P. Kronzer and James F. Dyrud

personally known to me, and known by me to be the persons described in and who executed the foregoing instrument, and who acknowledged that they executed the same as their free act and deed, on the day and year aforesaid.

(Seal)

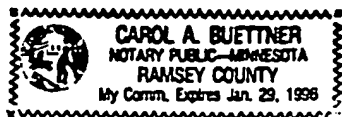



Notary Public

JM Office of Patent Counsel
P.O. Box 33427
St. Paul, Minnesota 55133-3427
U.S.A.

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On this 20th day of December, 1990, before me personally appeared Roger J. Stumo and Harvey J. Berg to me known to be the persons described in the above application for patent, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.



Carol A. Buettner
Notary Public